2012 Pioneer AV Receivers

Audio Technologies
- Phase Control
- Auto Phase Control Plus
- MCACC Auto Room Tuning
- Standing Wave Control
- PQLS with HDMI (Bit-stream/Multi Surround/2ch Audio)
- Jitter Reduction
- Advanced Sound Retriever
- Auto Sound Retriever
- Auto Sound Retriever for ARC
- Sound Retriever Link
- Sound Retriever AIR
- Auto Level Control
- Hi-bit24 Audio Signal Processing

Video Technologies
- Precise Conversion for 24p (1080/24p Upscaling)
- Stream Smoother
- Stream Smoother Link
- Advanced Video Adjust
- Highly-Precise I/P Conversion
- Digital Video Converter
- Triple HD Video Noise Reduction
- Deep Colour
- x.v.Colour

Audio Formats & Licenses
- DTS-HD Master Audio/Dolby TrueHD
- Dolby TrueHD Loudness Management
- Playable PC Audio Files

Sophisticated Surround System
- Various Speaker Settings
- Wide Surround
- Dolby Pro Logic IIz
- Virtual Speakers
- Virtual Depth
- Front Stage Surround Advance

* New features in blue

Connectivity
- HDMI™ (3D, ARC)
- Made for iPod, iPhone, and iPad
- Digital Audio from iPod/iPhone/iPad via USB
- Video Playback from iPod/iPhone/iPad
- Front USB Input

Network Features
- AirPlay Wireless Audio
- DLNA Certified™ (1.5)
- Compatible with Windows 7
- Copyright Protection Content Playback
- High-Quality Audio Streaming
- Internet Radio (vTuner)

Advanced Control
- iControlAV2012 Ready
- Sound Explorer
- Pioneer ControlApp Ready
- Bluetooth Ready
- Air Jam Ready
- AVNavigator/AVNavigator for iPad Ready
- Wireless LAN Converter Ready
- Multi-Zone
- Control with HDMI
- Standby Pass-Through without CEC
- HDMI Standby Input Switching
- Auto Power Down

Applicable models displayed in icons:

1122	VSX-1122-K
922	VSX-922-K
827	VSX-827-K (Oceania only)
822	VSX-822-K
522	VSX-522-K
322	VSX-322-K

Available models differ by region

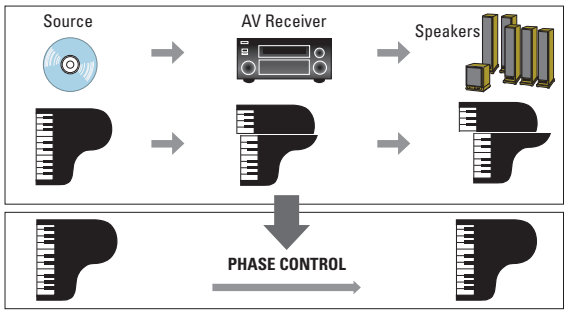
For General Area

Phase Control

1122 922 827 822 522 322

When amplifying multi-channel audio signals, receivers use a Low Pass Filter (LPF) to process low-frequency signals for subwoofer output. This causes "phase lag" — a delay of approximately 5 msec — of the low-frequency signals compared to the main channel signals. As a result, the delayed bass makes the sound lack synchronization. Pioneer's Phase Control technology effectively eliminates phase lag and significantly improves the multi-channel sound without any extra operation.

The "Phase Control" Compensates for the Delay of Low-Frequency Sound



Auto Phase Control Plus

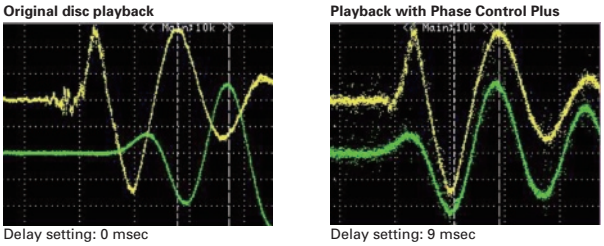
1122 922

During Blu-ray Disc/CD playback, Auto Phase Control Plus makes real-time analysis of the phase difference between the LFE (low frequency effect) and the main signals, and automatically compensates the gap. Elimination of phase lag enhances strong bass and clear high-frequency sound — especially effective for audio content such as live performance and music video clips.

Auto Phase Control Plus

* Effectiveness depends on content

Effect of Phase Control Plus (data comparison)



Superior sound provided by compensating the lag in the subwoofer channel on the disc.

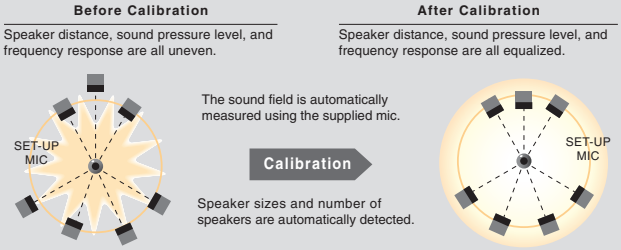
MCACC Auto Room Tuning

827 822 522

Create the optimum acoustic environment with Pioneer's MCACC (Multi-Channel Acoustic Calibration System), developed with the expertise of professional recording studios. The system — complete with custom microphone — automatically compensates for differences in speaker size, level and distance, and equalizes response.

MCACC Multi-channel Acoustic Calibration System

Acoustic Calibration by MCACC

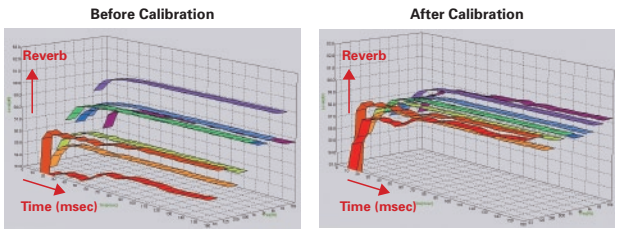

Before Calibration
Speaker distance, sound pressure level, and frequency response are all uneven.
After Calibration
Speaker distance, sound pressure level, and frequency response are all equalized.
SET-UP MIC
The sound field is automatically measured using the supplied mic.
Calibration
Speaker sizes and number of speakers are automatically detected.
SET-UP MIC

Advanced MCACC 1122 922

The Advanced MCACC uses a 3D calibration method with even more precise measurements by including the time axis. The AV receivers also feature a speaker polarity check for detecting misconnected cables, and a reverb measurement display for showing before/after calibration results. The measured data can be saved on your PC via the AVNavigator. The system automatically measures crossover frequency — much easier than the previous manual setting.

MCACC advanced

MCACC Reverberation Characteristics

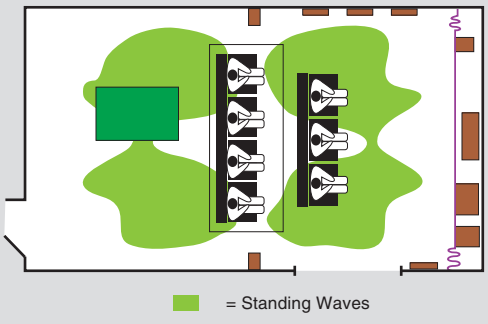


Standing Wave Control

1122 922

Acoustic standing waves occur when the sound waves from your speaker resonate with those reflected off the walls. Depending on the speaker placement, your listening position or the shape of the room, standing waves have a negative effect on the overall sound, especially in certain lower frequencies. Standing Wave Control effectively decreases resonance and prevents inaccurate EQ-setting calibration.

Standing Wave in a Typical Listening Room



PQLS with HDMI

1122 922

As shown on right, jitter causes clock timing error and distorts the D/A conversion timing. This is one of the biggest factors for sound degradation during digital transmission, such as decreased sound localization, and happens even with HDMI connection.

PQLS
Bit-stream

On the Blu-ray Disc player, the audio clock goes through algebraic transformation based on the video pixel clock, then transferred. On the AV receiver, the audio reference clock is regenerated using PLL in the algebraic value which came with the video pixel clock. So the audio reference clock is influenced by both the HDMI receiving chip's PLL performance and the video pixel clock, and can not avoid being regenerated with some jitter.

PQLS
Multi-Surround

PQLS
2ch Audio

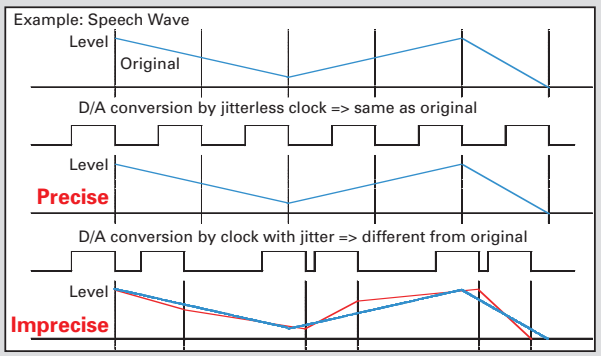
Pioneer's Precision Quartz Lock System (PQLS) was developed as a solution to this problem. PQLS processes D/A conversion using the high-precision crystal oscillator clock instead of the audio clock regenerated in the HDMI receiving chip, and is free from jitter created during HDMI transmission.

The data from the Blu-ray Disc player is temporarily buffered in the AV receiver's memory, then sequentially reproduced in sync with the high-precision crystal oscillator clock to prevent flaw. Additionally, the Blu-ray Disc player's data transmission clock is controlled by signals from the AV receiver to prevent overflow or underflow in the buffer.

Three types of PQLS are available depending on the connected Blu-ray Disc player.

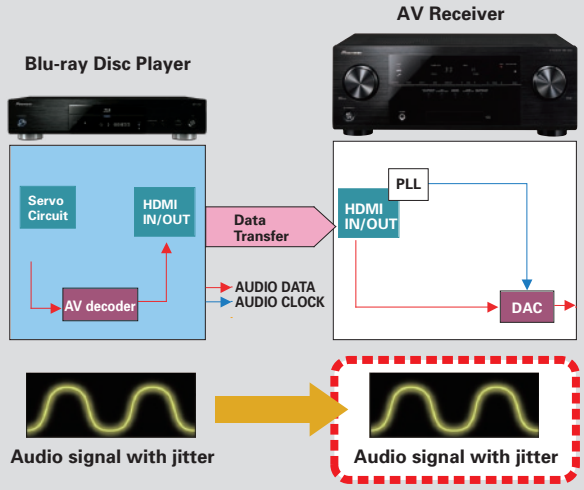
- PQLS 2ch Audio: For CD playback (LPCM).
- PQLS Multi-Surround: For CD/DVD/BD sources, when the Blu-ray Disc player output is set to LPCM.
- PQLS Bit-stream: For CD/DVD/BD sources, all the time. For PQLS to be effective, Control with HDMI needs to be on, and — only for PQLS Multi-Surround — HDMI audio output needs to be set to PCM.

Sound Degradation from Jitter

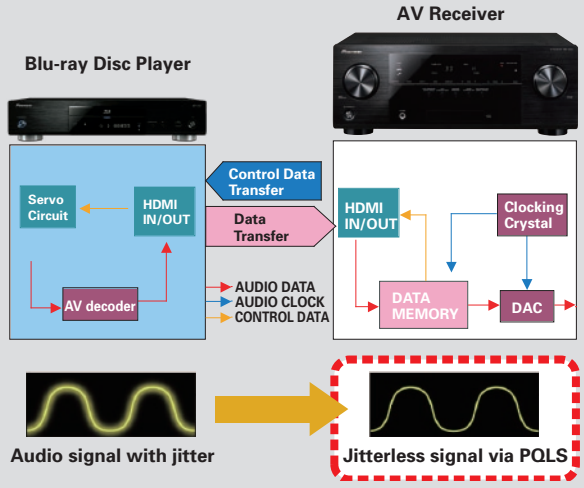


Jitter effects on D/A conversion prevents accurate signal conversion

Conventional HDMI Transmission



Jitterless Transmission (PQLS)



PQLS Backward Compatibility

Blu-ray Disc Players	AV Receiver VSX-1122 VSX-922
BDP-LX91	2ch
BDP-LX71	2ch
BDP-LX52	Multi
BDP-LX53/BDP-330 BDP-LX54/BDP-430 BDP-LX55/BDP-440	Bit-stream

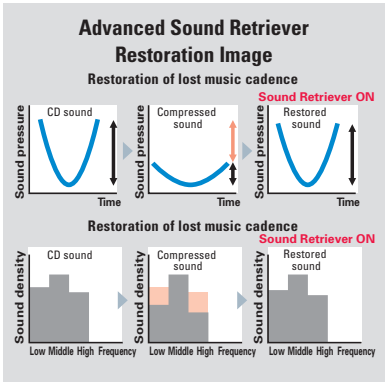
Advanced Sound Retriever

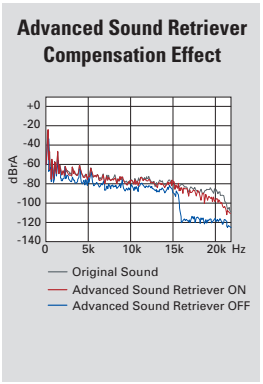
1122 922 827 822 522 322

Pioneer's AV receivers feature the Advanced Sound Retriever, which restores the output of compressed audio — such as WMA, MPEG-4 AAC, and MP3 — to the level of CD sound. The Advanced Sound Retriever creates new signals to restore the minor details left out during the compression process.

Multi-Channel Advanced Sound Retriever 1122 922

Advanced Sound Retriever for multi-surround sound is compatible with DVD soundtracks featuring Dolby Digital or DTS.

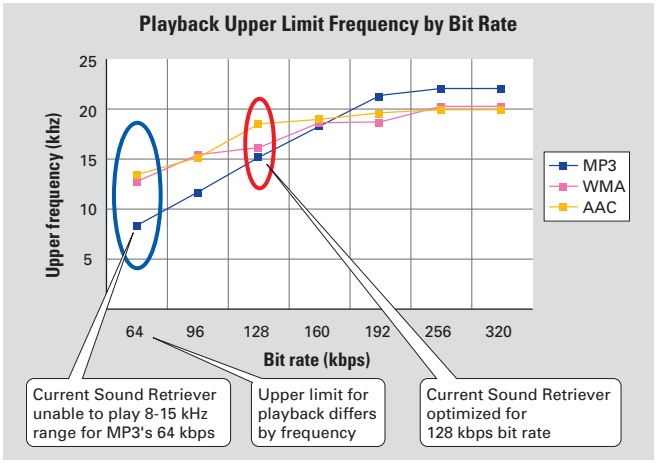




Auto Sound Retriever

1122 922

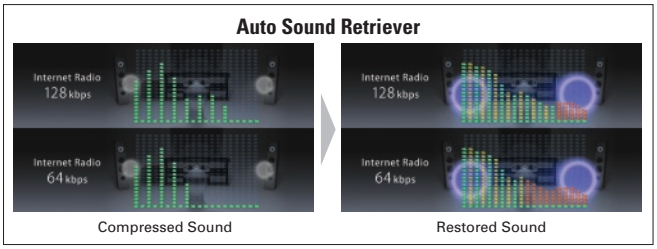
Since the Advanced Sound Retriever is designed with an algorithm optimized to process 128 kbps signal, it did not work well with 8-15 kHz high frequencies in 64 kbps signal, which is the bit rate for quite a few internet stations. The newly developed Auto Sound Retriever automatically determines the audio signal's bit rate, and interpolates the data lost during compression. It is especially effective for improving the sound quality of low bit-rate content — an ideal feature when switching between internet radio stations with different bit-rates.



Auto Sound Retriever for ARC

1122 922

With digital broadcast, although images are displayed in high-definition, the audio quality is not as high since they are compressed with various bit rates. By applying Pioneer's Auto Sound Retriever feature to TV broadcast signals, it adjusts the effects according to the bit rate transferred via HDMI's ARC (Audio Return Channel), letting you enjoy digital TV broadcast in high-definition sound via Pioneer AV receiver.

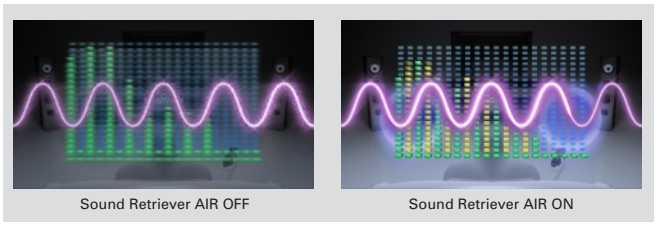


Sound Retriever Link

1122 922

Through HDMI connection, Sound Retriever Link detects the original audio file information such as source type, codec, and bit rate played on a compatible Pioneer Blu-ray Disc player, and automatically switches to the most suitable Sound Retriever. So there is no need to switch on/off according to the source. Advanced Sound Retriever is selected for Blu-ray Disc and DVD sources, and Auto Sound Retriever is selected for other sources.

* Advanced Sound Retriever is selected for all sources when connected with a non-compatible Blu-ray Disc player.

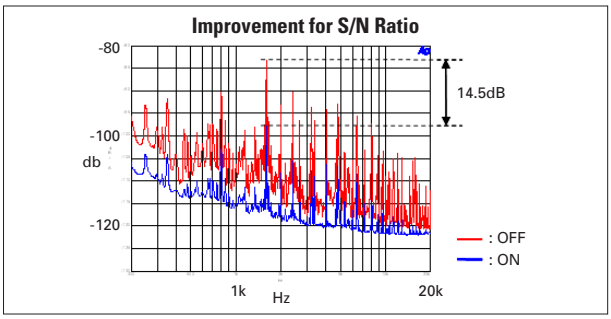


Sound Retriever AIR

1122 922 827 822

When streaming music via *Bluetooth*, the sound quality often suffers due to the compression process. Pioneer's Sound Retriever AIR is the world's first technology for improving the quality of *Bluetooth* transmitted sound. It restores the music cadence lost through compression, and also reduces the noise generated by *Bluetooth* transmission for a better S/N ratio.

* *Bluetooth* connection by AS-BT100 or AS-BT200 adapter required



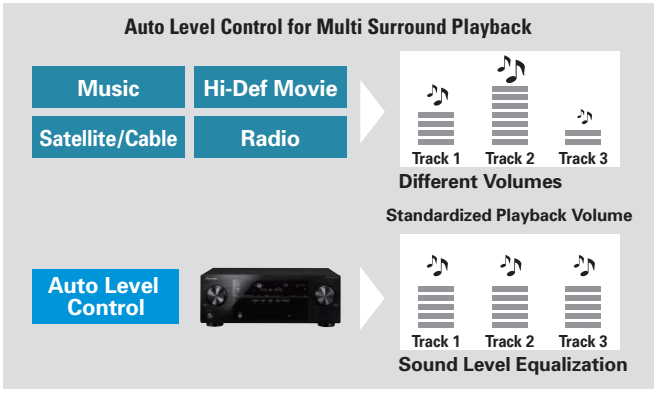
Auto Level Control

1122 922 827 822 522 322

Auto Level Control equalizes volume level differences between tracks when playing music from an iPod or other sources.

Multi-Channel Auto Level Control 1122 922

Multi-channel Auto Level Control supports surround sound playback, maintaining a consistent level and clear audio. The function adjusts low and high frequency sounds, dialogs, surround effects etc. that are difficult to hear in low volume, to optimal levels — an ideal feature for listening at night without disturbing others.

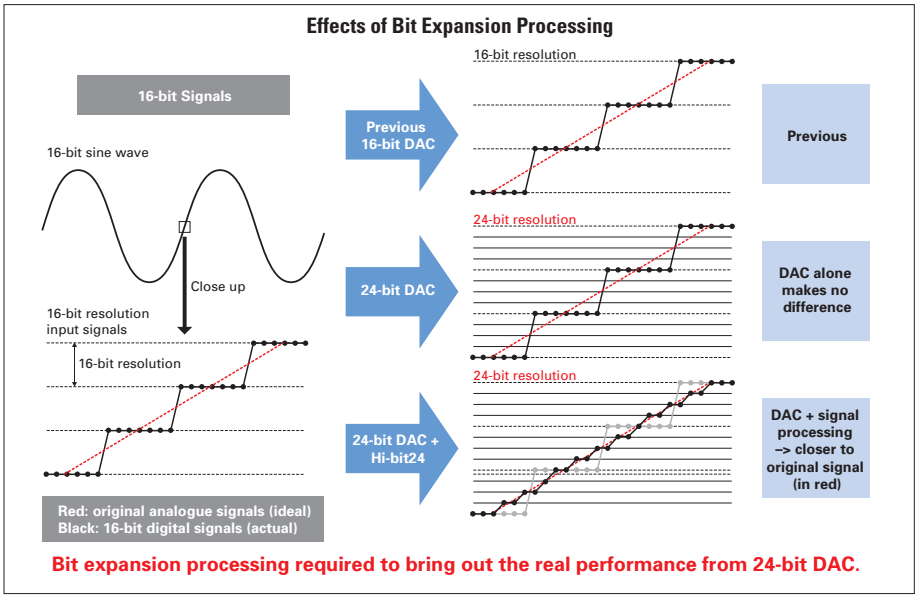


Hi-bit24 Audio Signal Processing

1122

This technology works to create undistorted sound, bringing out the best in the 24-bit DAC. The 24-bit DAC hardware alone does not reproduce better sound. Maximum performance is gained by applying the Hi-bit24 Audio Signal Processing to expand signal resolution, creating more detailed, smooth sound, closer to the original analogue signal. Hi-bit24 also increases the sound pressure for a tactile listening experience, and the more channels you have, the more impressive it becomes. It is effective for multi-channel content on CD/DVD, PC files less than 24-bit and works with any disc player.

Hi-bit 24 Processing

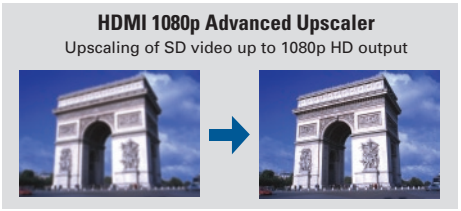


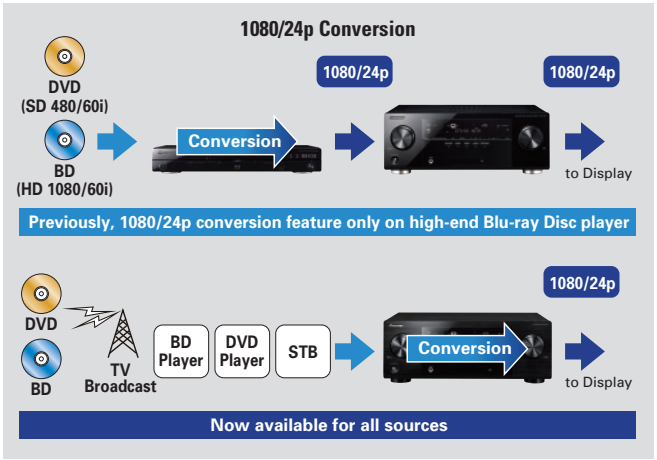
Bit expansion processing required to bring out the real performance from 24-bit DAC.

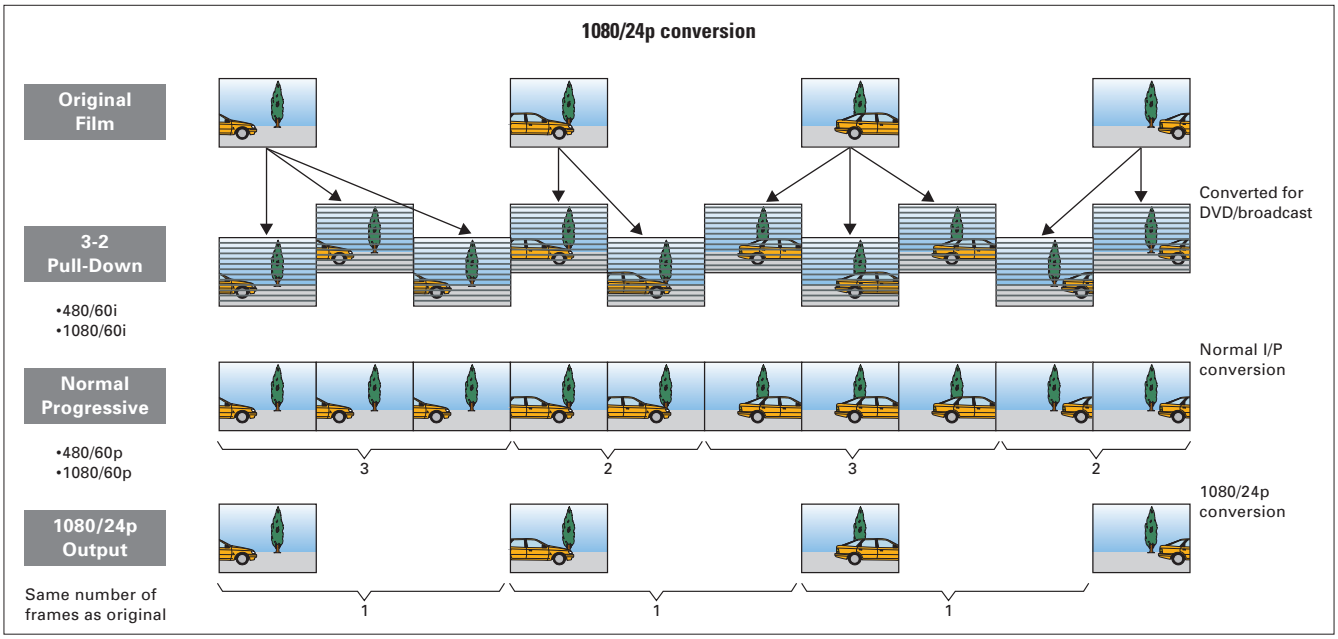
Precise Conversion for 24p (1080/24p Upscaling)

1122 922

The highly acclaimed video processing technology P.C.24p (Precise Conversion for 24p) used on Pioneer's flagship Blu-ray Disc player, is now available on these AV receivers. You can enjoy real film-quality images at 24 frames-per-second (fps) in 1080p output from DVDs and TV broadcasts, even with entry class disc players. Also good for viewing HD broadcasts.







Stream Smoother

1122 922

Stream Smoother is a newly developed video adjustment feature for watching network content on your home theatre. It reduces block noise and mosquito noise on low bit rate video content such as YouTube, offering finer and clearer images.

Stream Smoother OFF　　Stream Smoother ON

* For illustration purpose only

Stream Smoother Link

1122 922

Through HDMI connection, Stream Smoother Link detects the source type playing on a compatible Pioneer Blu-ray Disc player, and automatically switches Stream Smoother on or off accordingly. So there is no need for manual switching depending on the source. Stream Smoother is turned off for Blu-ray Disc and DVD sources, and turned on for network content to enrich low bit rate video quality.

*** When connected with a non-compatible Blu-ray Disc player, Stream Smoother is turned on for all sources.**

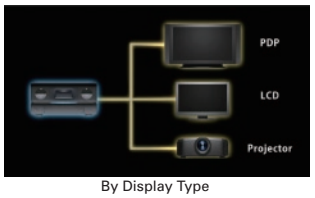
Advanced Video Adjust

1122 922

Advanced Video Adjust is a new feature which optimizes video signals according to the connected display type, such as plasma display panel, LCD, or projector. Additionally, it automatically adjusts the picture image for the distance of your viewing position, based on MCACC measurement data.

*** Function not available for component/composite analogue connection. Video optimization only available for HDMI connection.**

Optimised Image with Advanced Video Adjust



By Display Type

By Distance

Advanced Video Adjust

• PDP Mode 1

Through PDP Mode 1

Adjusts for optimum image with more detail and less noise

• PDP Mode 2

Through PDP Mode 2

Adjusts for a more natural image

• LCD Mode

Through LCD Mode

Adjusts LCD's washed out black for optimum image

• Front Projector Mode

Through Front Projector Mode

Provides a sharp and vivid image suited for a front projector

* For illustration purpose only

Highly-Precise I/P Conversion

1122 922

Merely having a high-grade video processor does not guarantee a quality picture — a fine-tuned setup makes the difference. Pioneer engineers have performed rigorous testing to achieve an optimum image from almost any content. This highly-precise conversion is effective for HD as well as SD sources.

PureCinema I/P Conversion

For film content, PureCinema I/P Conversion faithfully reproduces the original material.

Motion Adaptive I/P Conversion

For video content, Motion Adaptive I/P Conversion processes moving images by eliminating conversion errors or noise generation, to deliver high-quality pictures.

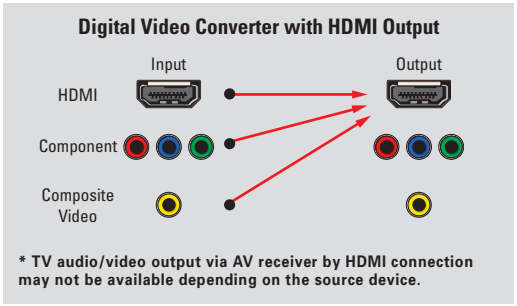
Motion Adaptive I/P Conversion

Conventional I/P Conversion Motion Adaptive I/P Conversion

Digital Video Converter

1122 922 827

Composite or component input video signals can be converted for HDMI output to view on a compatible display.


Digital Video Converter with HDMI Output
Input
Output
HDMI
Component
Composite Video
* TV audio/video output via AV receiver by HDMI connection may not be available depending on the source device.

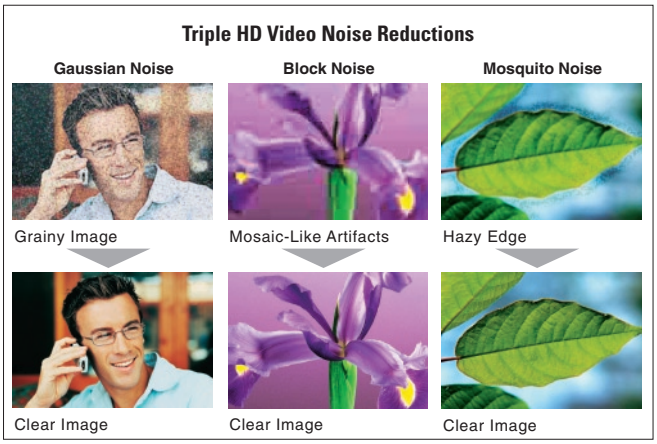
Triple HD Video Noise Reduction

1122 922

The AV receivers feature three separate noise reduction circuits for enhanced video performance.
- Component Frame Noise Reduction (YNR/CNR): reduces Gaussian noise without blurring the picture
- Block Noise Reduction: reduces block noise found in flat areas
- Mosquito Noise Reduction: reduces noise along the outline of images

The Pioneer-exclusive advanced PureCinema I/P Converter also helps to remove distracting lines during playback.

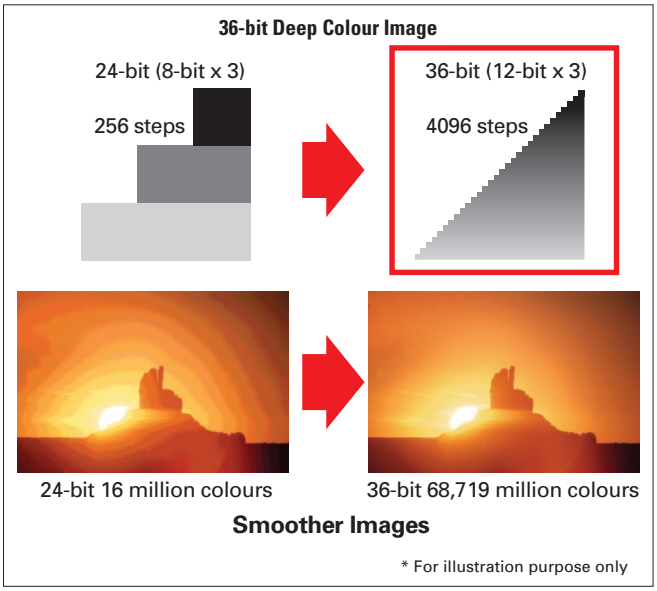
Triple HD Noise Reduction



Deep Colour

1122 922 827 822 522 322

Pioneer AV receivers support 36-bit Deep Colour, featuring smooth gradation steps with more accurate precision of brightness and colour information, resulting in superbly detailed, natural colour.



x.v.Colour

1122 922 827 822 522 322

Pioneer AV receivers support x.v.Colour, which almost doubles the range of colours (known as the "gamut") that can be accurately captured, and reproduced on a compatible display, thereby more closely matching the natural characteristics of the human eye.

x.v.Colour

*"x.v.Colour" only available for playback of discs recorded with AVCHD devices.

DTS-HD Master Audio™ and Dolby TrueHD

1122 922 827 822 522 322

DTS-HD Master Audio™ and Dolby TrueHD are the highest quality audio formats available, provided by the huge capacity Blu-ray Disc to complement its high-definition videos. These new-generation audio codecs bring you the equivalent of the original soundtrack, just as intended by the creator.

Dolby TrueHD Loudness Management

1122 922

Loudness Management frees you from annoying volume fluctuations that often occur when switching channels, programs, or input sources, by maintaining a consistent loudness-level. The function turns on/off during content playback, activating or deactivating post processing within the decoder. When the function is turned off, audio is delivered in a lossless mode.

Playable PC Audio Files

1122 922 827 822

With DLNA and AirPlay features, the AV receivers let you stream audio from compatible devices. You can enjoy up to 192 kHz/24-bit high-resolution FLAC and WAV audio, as well as MP3/WMA/AAC compressed music files.

High Definition Audio Formats

DTS-HD Master Audio and Dolby TrueHD provide sound that is bit-for-bit identical to the studio master, delivering sound at extremely high variable bit rates far exceeding standard DVDs.

Comparison of High Definition Audio Formats

Compressed		Uncompressed
Lossless	Lossy	
Dolby TrueHD	Dolby Digital Plus	Linear PCM
DTS-HD Master Audio	DTS-HD High Resolution Audio	Uncompressed 48 kHz/16-bit audio format similar to CD, but with higher sampling frequencies and quantization. No decoding required.

Playback Formats (Network)

Format	Extension	Stream		VSX-1122-K/VSX-922-K/VSX-827-K/VSX-822-K
MP3*	.mp3	MPEG-1Audio Layer-3	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	8-320 kbps
			VBR/CBR	• / •
WAV	.wav	WAV	Sampling Frequency	32/44.1/48/88.2/96/176.4/192 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	2
WMA	.wma	WMA2/7/8/9	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	5-320 kbps
			VBR/CBR	• / •
AAC	.m4a .aac .3gp .3g2	MPEG-4 AAC LC MPEG-4 HE AAC (aacPlus v 1/2)	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	16-320 kbps
			VBR/CBR	• / •
FLAC	.flac	FLAC	Sampling Frequency	32/44.1/48/88.2/96/176.4/192 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	2

* MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson Multimedia

Various Speaker Settings

1122 922

Previous AV receiver models only allowed surround back speakers for a 7.1-channel layout (Fig. 1).
This year's lineup provides more options in terms of speaker placement. Combine front wide speakers (Fig. 2) with Pioneer-original Wide Surround mode to enjoy more spacious sound in the front. Or place front height speakers (Fig. 3) and use Dolby Pro Logic IIz for vertical-spreading sound.

Wide Surround Mode

1122 922

Pioneer's Wide Surround Mode creates sound with highly dense motion feeling around the front and the sides. Wide Surround Movie provides motion feeling in front, while Wide Surround Music creates a wide-spreading sound field in the foreground.

Dolby Pro Logic IIz

1122 922 827 822 522

Dolby Pro Logic IIz realizes more spacious surround sound by adding front height channels to the conventional 5.1ch/7.1ch speaker settings. The enveloping sound with additional depth and dimension creates a lifelike listening experience. Dolby Pro Logic IIz does not require special contents, and works with existing soundtracks.

Speaker Layout Examples

Fig. 1

Fig. 2

Fig. 3

Virtual Speakers

1122 922

Pioneer's Virtual Speakers feature lets you enjoy full surround sound without placing extra speakers. By turning on Virtual Height, Virtual Surround Back, and Virtual Wide modes, you can experience virtual 11.1-channel sound from a 5.1-channel speaker setting. The sound field can be adjusted with intuitive control on your iPod touch/iPhone/iPad or Android using the iControlAV2012 application.

Virtual Height

If you want to experience vertically falling sound but can not place front height speakers, there's a perfect solution. Pioneer's Virtual Height mode (Fig. 4) creates a height sound image without front height speakers, letting you enjoy enveloping virtual 7.1-channel sound from 5.1-channel speaker settings.

Virtual Surround Back

Want to be thrilled by surrounding sound from behind, but don't have the space for surround back speakers? Then try Virtual Surround Back mode (Fig. 5). It simulates 7.1-channel surround sound, giving the impression that you have surround back speakers when listening to a 5.1-channel source.

Virtual Wide

Virtual Wide mode (Fig. 6) is a useful solution for creating the effects of front wide speakers, letting you enjoy surround sound in a rich sound field — all without placing extra speakers.

Fig. 4

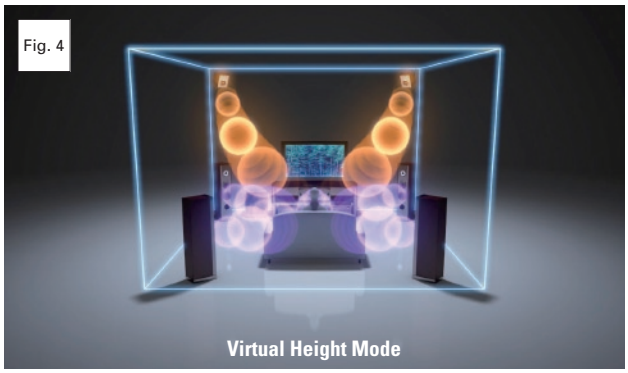


Fig. 5

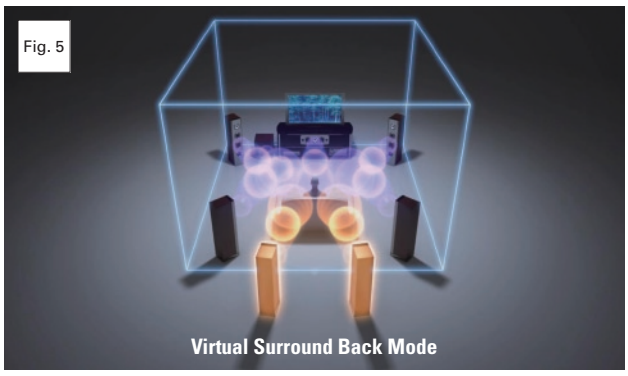
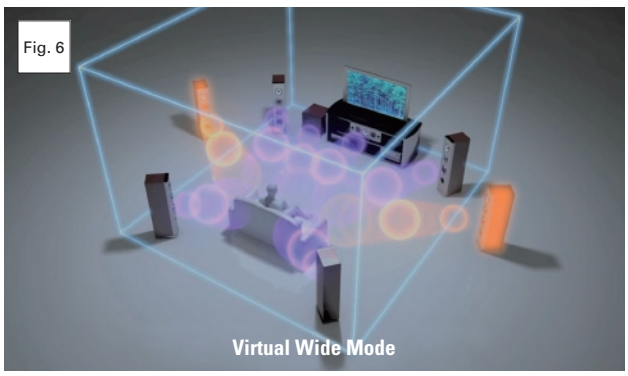


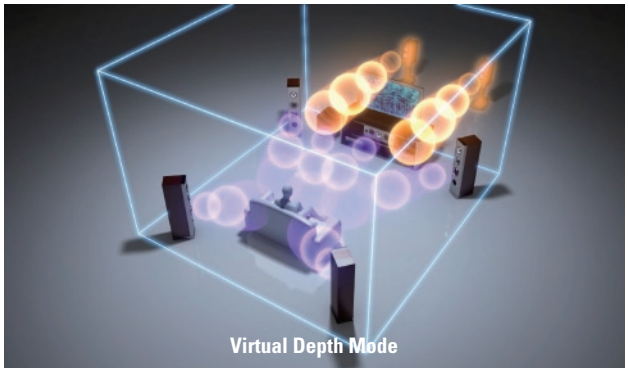
Fig. 6



Virtual Depth

1122 922

Virtual Depth is a Pioneer-exclusive feature for creating a sound field behind the screen — a perfect match for 3D video content, for a lively synergy of sound and vision.



Front Stage Surround Advance

1122 922 827 822 522 322

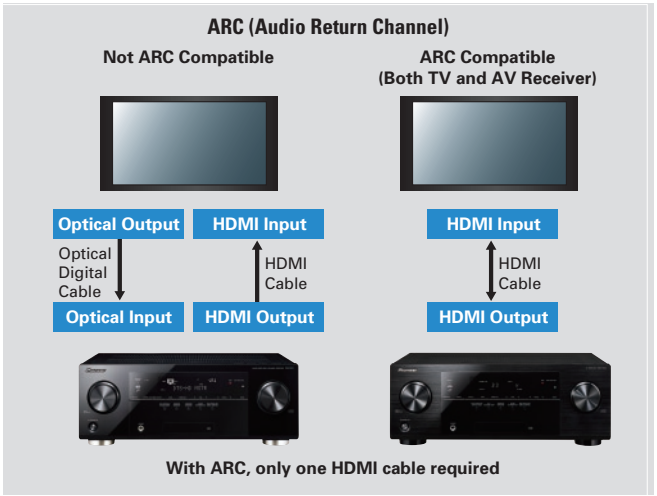
With Front Stage Surround Advance, you can enjoy surround sound coming from only the front speakers and the subwoofer. Since wall reflections are not used, the setup is less dependent on the room environment, allowing front alignment of the speakers. Front Stage Surround Advance creates an excellent sound image and natural sound.

HDMI™ (3D, ARC)

1122 922 827 822 522 322

Pioneer's AV receivers feature 3D technology. You can enjoy the latest 3D Blu-ray Discs and broadcasts by combining the AV receivers with a 3D compatible Blu-ray Disc player, game console, or tuner (STB) and display via HDMI connection. The Audio Return Channel (ARC) feature allows a TV with built-in tuner to send audio data "upstream" to the AV receiver via HDMI — so there's no need for a separate audio cable. Enjoy full-digital transfer of high-definition audio as well as up to 1080p video signals by HDMI connection.

3D Compatible



Made for iPod, iPhone, and iPad

1122 922 827 822 522

The latest AV receivers are certified "Made for iPod®, iPhone®, and iPad®" products*, letting you enjoy music from your iPod/iPhone/iPad. The included cable allows direct USB connection to the front panel, providing battery charge for your devices. The AV receivers are also compatible with video playback from iPod/iPhone/iPad.

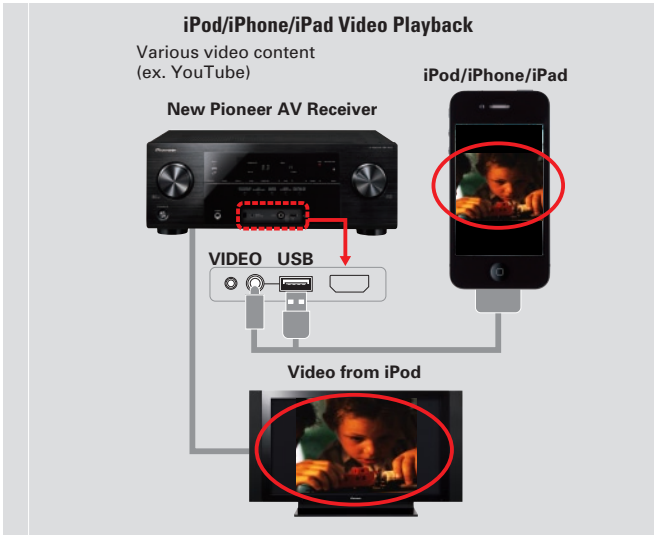
* VSX-522-K not compatible with iPad
** Available features depend on iPod/iPhone/iPad model
For details on iPod compatibility, visit
http://pioneer.jp/homeav/support/ios/ao

Digital Audio from iPod/iPhone/iPad via USB

1122 922 827 822 522

Enjoy iPod music via digital connection. The audio signals are directly transferred to the AV receiver's high-performance DAC, offering superior sound compared to analogue connections. What's more, you can operate your iPod with the AV receiver's remote control.

Functions such as the equalizer cannot be controlled using the pre-main amplifier or receiver, so we recommend you to turn off the equalizer before connecting.
iPod is for legal or rightholder-authorised copying only. Don't steal music.



Video Playback from iPod/iPhone/iPad

1122 922 827 822

The units can play video content from iPod/iPhone/iPad, and you can even watch YouTube video enlarged on your TV screen. In addition to simple 'plug and play' connection using dedicated cables, you can display the album artwork in colour on your TV. The new Cover List feature lets you visually choose an album from thumbnail images. Song titles can be shown in 7 languages. Your iPad also gets charged while connected.

Front USB Input

1122 922 827 822 522

The front panel USB input terminal allows straightforward connection to a USB memory stick. This plug and play connectivity will enable you to easily play music files or watch JPEG pictures.

USB

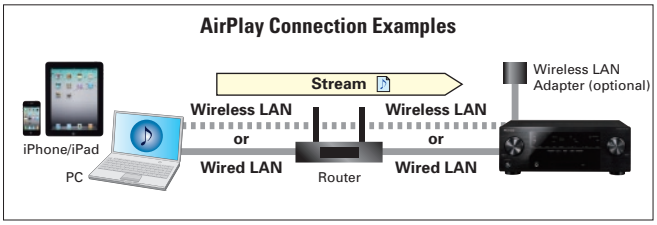
AirPlay Wireless Audio

1122 922 827 822

AirPlay — Enthusiasts have complete access, control and playback of their entire iTunes music library wirelessly through their AV receiver. Users can quickly and easily enjoy all their music with song information and album art simultaneously displayed on a connected monitor/TV.

AirPlay

*** For details on iPod compatibility, visit**
http://pioneer.jp/homeav/support/ios/ao

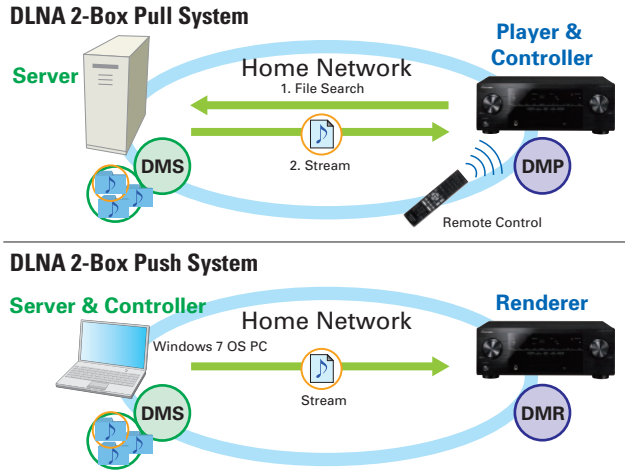


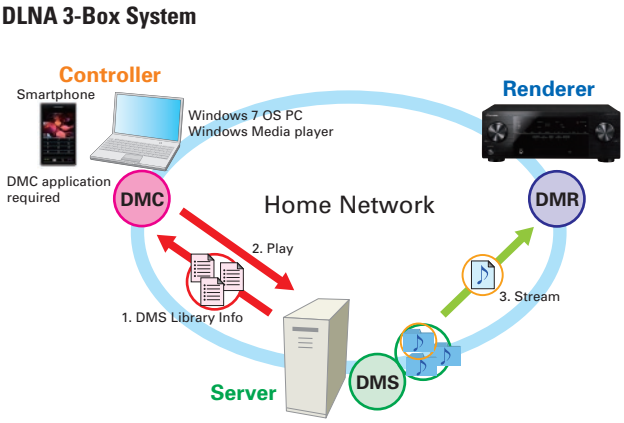
DLNA Certified™ (1.5)

1122 922 827 822

This AV receivers are DLNA certified (1.5), enabled to work not only as a Digital Media Player (2-Box Pull System) for playing DMS audio files, but also as a Digital Media Renderer (3-Box System) to be remotely controlled by a device such as a smartphone or PC. For example, you can play music content* from a PC in another room, from a separate device in your living room. As a DMR (2-Box Push System), the AV receiver can also play received audio data when the user controls the DMS.

*** Playback of DRM protected commercial content requiring DTCP-IP link protection is not supported.**





Digital Media Server (DMS):
Stores and distributes content to DMP/DMR
Example: PC

Digital Media Player (DMP):
Finds and plays content on DMS
Example: TV, stereo/home theatre, game console

Digital Media Controller (DMC):
Finds content on DMS for playback on DMR
Example: Internet tablet, Wi-Fi digital camera, PDA

Digital Media Renderer (DMR):
Plays content received from DMC, which finds content on DMS
Example: TV, AV receiver, remote speakers

Compatible with Windows 7

1122 922 827 822

The AV receivers are compatible with Windows 7, letting you easily stream music, video, or photos from compatible PCs on your home network.

Copyright Protection Content Playback

1122 922 827 822

The AV receivers function as a WMDRM10-ND (Microsoft Windows Media DRM for networked devices), letting you stream protected digital media on your home network.

High-Quality Audio Streaming

1122 922 827 822

The AV receivers can stream high-quality audio formats with 96 or even 192 kHz sampling frequencies such as FLAC or WAV. Of course, MP3, WMA, and MPEG4-AAC audio can also be enjoyed on your home network.

Internet Radio (vTuner)

1122 922 827 822

The AV receivers come with the vTuner for listening to a multitude of radio programs from around the world on the internet. LAN connection allows radio access without having to use your PC. You can easily browse stations using the remote control. Various categories are available on the vTuner database, offering limitless entertainment. You can even add broadcast stations unavailable on the vTuner list. Access the Pioneer internet radio site from your PC*, and register the desired stations to your favorites list. Then, you can easily tune in to the radio stations from the AV receiver.

* Access code required

iControlAV2012 App for iPod touch, iPhone, iPad, and Android

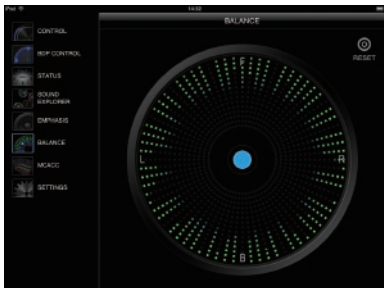
1122 922

iControlAV2012 is an iPod touch/iPhone/iPad/ Android application developed by Pioneer, freely downloadable from the App Store or Google Play. On a simple and intuitive interface, the application allows you to use your device as a remote for controlling the AV receiver's functions such as volume, input, mode, balance, level control for woofer and centre speakers, PQLS, Phase Control, virtual speakers, and Auto Sound Retriever, as well as basic functions of Pioneer's latest Blu-ray Disc players. Album information and AV receiver's input/output status can also be displayed. Enjoy smooth control on your device's screen, with support for 8 languages (same setting as your device). This latest version provides enhanced features, and you can draw EQ curves with your finger. On iPad, all the basic controls are shown on one screen, and you can load and view MCACC measurement data from the AV receiver. iControlAV2012 is compatible with both vertical and horizontal display on iPad.

*** AV receiver needs to be connected to a wired LAN in a wireless LAN network.**

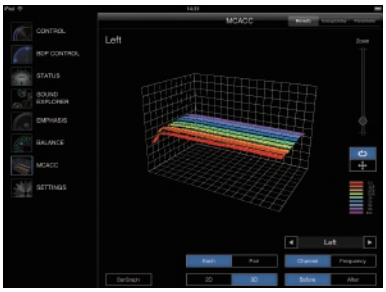
iControlAV2012

iControlAV2012 for iPad



Balance

Control



MCACCC

Finger EQ

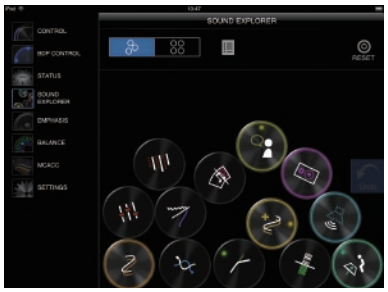
Sound Explorer

1122 922

Sound Explorer is the latest addition to the iControlAV2012 menu, letting you easily adjust various sound parameters with intuitive and pleasing operation. It comes in three operation modes. With Fixed Position mode, all icons are neatly positioned in rows. The playful Drop Icon mode displays continuously falling icons. All List mode shows the description and status for each setting, with a link to YouTube video clip explaining the feature.

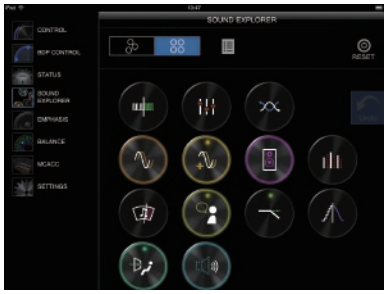
*** Adjustable sound parameters differ by model.**

Sound Explorer



Sound Explorer Drop Icon Mode

Sound Explorer Settings



Sound Explorer Fixed Position Mode

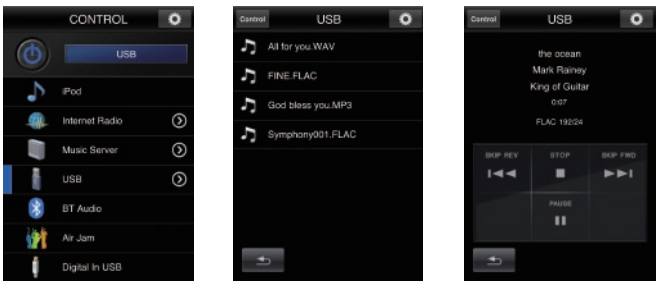
Ready for Pioneer ControlApp

827 822

The application, available for free download, lets you use your iPod touch/iPhone/Android as a remote control for operating the AV receiver's basic functions, as well as browse and play songs from your music library.

ControlApp

*** AV receiver needs to be connected to a home LAN network in a wireless environment.**
For more information, visit
http://pioneer.jp/product/soft/iapp_controlapp/en.html (iPod touch/iPhone)
http://pioneer.jp/product/soft/aapp_controlapp/en.html (Android)



Control Menu　List　Operation Screen

Bluetooth® Ready

1122 922 827 822

By using the AS-BT200 optional Bluetooth adapter, you can enjoy wireless transmission of audio content from compatible devices such as iPod/iPod touch/iPhone/iPad (with iOS 3.0 or later), mobile phone, or personal computer.

AS-BT200 Optional *Bluetooth* Adapter
– A2DP (Advanced Audio Distribution Profile)
– AVRCP (Audio Video Remote Control Profile)
– Registers up to 8 devices

Bluetooth®

Air Jam Ready

1122 922 827 822

Discover new songs on your friend's iPod touch/ iPhone/iPad or Android smartphones. Through Bluetooth connection*, Air Jam application lets you stream music from up to four devices. Air Jam also transmits metadata such as song title, artist, and album name to the "Entry Log". From this playback history, you can easily purchase songs on the iTunes Store or watch related videos on YouTube.**

Air Jam

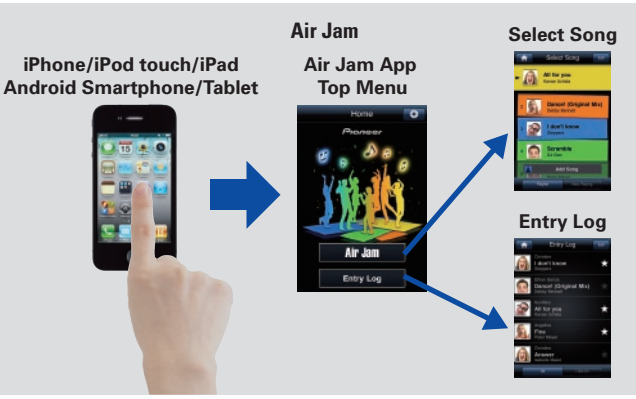
*** AS-BT200 optional adapter required**

**** iOS: This application is developed and checked for operation under iOS 4.2 conditions, yet the iOS version for application development and operational check are subject to change. The number of connectable devices or compatibility may differ when other software versions are installed. Noise and interruption may be caused when the iPod touch/iPhone/iPad is connected to other Bluetooth devices. For the latest information, please refer to Air Jam download page on the App Store.**

For more information, visit
http://pioneer.jp/product/soft/iapp_airjam/en.html (iOS)

Android: This application is developed and checked for operation for the following Android devices — Samsung GALAXY (OS 2.2), GALAXY SII (OS 2.3).

For more information, visit
http://pioneer.jp/product/soft/aapp_airjam/en.html (Android)



AVNavigator

1122 922

Pioneer's AVNavigator is a user-friendly support feature for the AV receiver's wiring and operation. Using the supplied CD-ROM, you can easily set up the AV receiver straight out of the box. An interactive HTML manual, Wiring Navi, and MCACC application is included in the AVNavigator. It also helps the user with software updates.

Wiring Navi

Start the Wiring Navi on your PC from the CD-ROM. By answering questions about your equipment and terminals, the actual connection image will be displayed. Plug in your equipment and speakers accordingly, including the network connection with your PC, then transmit the setup information to the AV receiver from your PC. The Wiring Navi is compatible with iPad, and can be downloaded free of charge from the App Store.

Interactive Manual

The interactive HTML manual can be browsed on your PC, and clicking on a keyword will send a command to the AV receiver. It also works the other way – key operation on the remote control or the main unit will display the corresponding manual page on your PC.

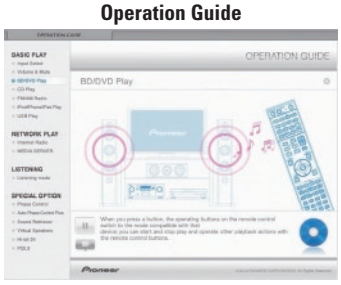
Software Updates

With AVNavigator, you can check the main unit's software updates with one click. If an update is required, AVNavigator will guide the procedure. You can also look for updates on the AVNavigator's software.

Operation Guide

After setup, you can check how to use the AV receiver with the Operation Guide. This new feature gives a quick tutorial on basic operations using illustrations and animations, allowing you to start right off without referring to the user manual.

Operation Guide



AVNavigator for iPad

1122 922

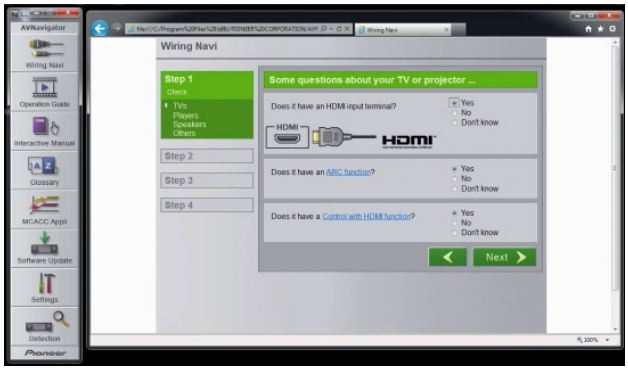
AVNavigator for iPad is a free application that helps you with the AV receiver's wiring and set-up using your iPad, available on the App Store. It includes the Wiring Navi, Instruction Manual, and MCACC App which lets you browse and save MCACC measurement data as well as Full Band Phase Control results in 2D or 3D graphics.

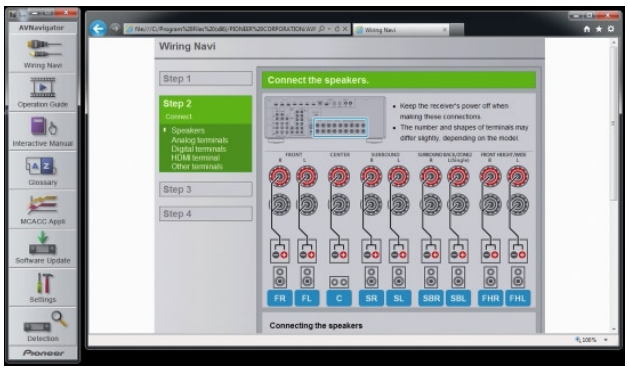
AVNavigator

For more information, visit http://pioneer.jp/product/soft/iapp_avnavi/en.html

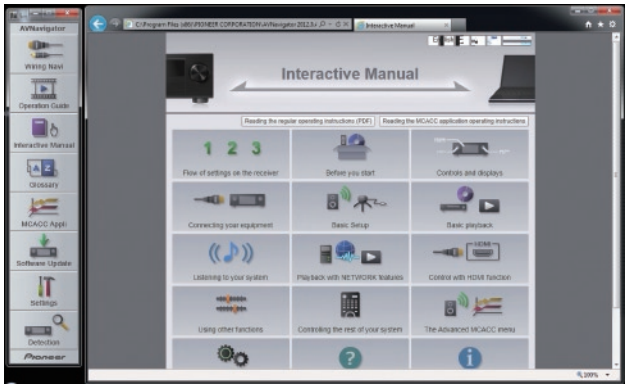
AVNavigator (Images subject to change)

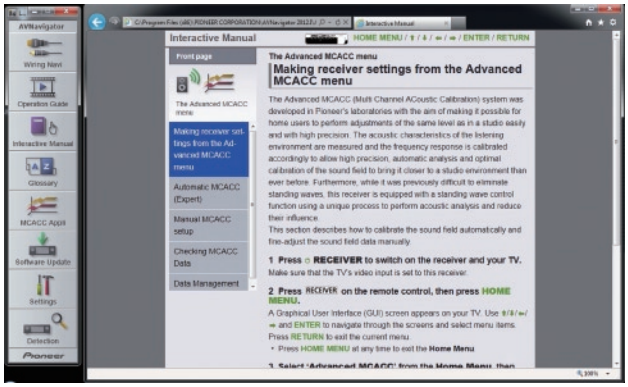
Wiring Navi


Wiring Navi
Step 1
Some questions about your TV or projector ...
Does it have an HDMI input terminal?
HDMI
Does it have an ARC function?
Does it have a Control with HDMI function?
Next



Interactive Manual

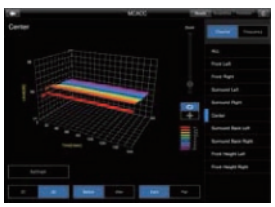




AVNavigator for iPad

Menu

Wiring Navi



MCACC Measurement Data

Instruction Manual

Wireless LAN Converter Ready

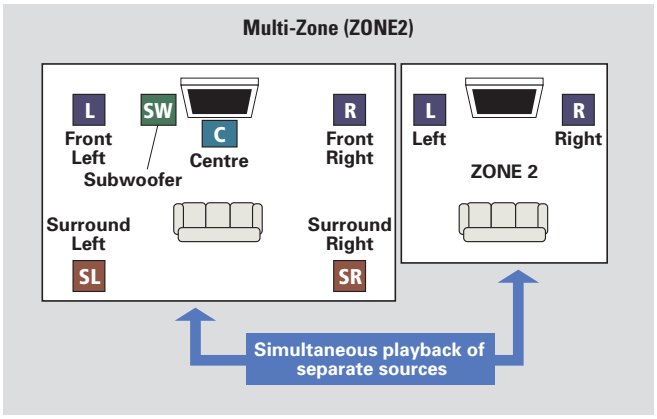
1122 922

With the optional AS-WL300 wireless LAN converter, you can enjoy wireless LAN connection for the AV receiver. The AS-WL300 works with power supply from the AV receiver's dedicated USB terminal, so no AC adapter is required.

Multi-Zone (ZONE 2)

1122 922

With Pioneer's Multi-Zone, you can play music and movies from different sources in two zones at the same time.



Control with HDMI

1122 922 827 822

HDMI connection with compatible products allows the following linked operations:

- Volume adjustment/mute of AV receiver via TV
- Automatic input change when TV channel is switched or playback starts on a player
- Linked power on/off with TV

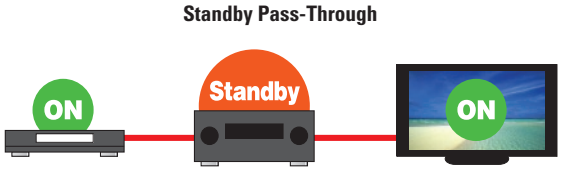
* For details on compatible TV and components, see http://pioneer.jp/homeav/support/hdmi_cec/

Standby Pass-Through without CEC

1122 922

With standby pass-through, the AV receiver can pass audio and video signals via HDMI even during standby. This feature is useful when you want to access HDMI-connected components without turning on the AV receiver.

* Control with HDMI needs to be turned off



HDMI Standby Input Switching

1122 922

The function switches input source when the primary signal is cut off, and switches back to the primary input when the primary signal reappears.

Auto Power Down

1122 922 827 822 522 322

The AV receiver will automatically turn off after being left uncontrolled for a certain time set by the user.

Product Sheet

VSX-1122-K/DLPWXE (Oceania/Asia)
VSX-922-K/DLXE (Asia)
VSX-922-K/PWXE (Oceania)
VSX-922-K/FXE (Taiwan)
VSX-827-K/PWXE (Oceania)
VSX-822-K/FLXE (General Area)
VSX-522-K/PWXE (Oceania)
VSX-522-K/FLXE (General Area)
VSX-322-K/DLPWXE (General Area)

VSX-1122-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 160 W/ch (6 ohms 1kHz 10 % 1ch Driven Maximum Power Output)
- 135 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 75 W/ch (20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- Hi-bit24 Audio Signal Processing
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Advanced MCACC Room Calibration
  - 3D Time Axis Measurement
  - Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (OSD or AVNavigator)
  - Standing Wave Control
- Pioneer Sound Enhancements
  - Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - PQLS Bit-stream/Multi-Surround/2ch
  - Advanced Sound Retriever (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Sound Retriever AIR
  - Auto Level Control (Multi-ch)
  - Advanced Surround (15+1 Modes)
  - Wide Surround Movie & Music
  - Front Stage Surround Advance (Wide/Focus)
  - Virtual Speakers (Wide/Height/Surround Back)
  - Virtual Depth

VIDEO FEATURES

- HDMI 7 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p/24fps Scaler
- 1080p Upscaling
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner
- ZONE 2 Analogue Audio Out and Volume Control
- ZONE 2 Composite Video Out with OSD

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- iControlAV2012 Remote Control App Ready (under development, to be released in spring 2012)
  - AV receiver and Blu-ray Disc player control from smartphone
  - Sound Explorer
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Wireless LAN Converter Ready (optional AS-WL300 required)
- Firmware Update via Internet or USB
- AVNavigator for easy wiring and setup with PC or iPad
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

* Available for free download from App Store/Google Play

VSX-1122-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

CONNECTIONS

REAR PANEL

VSX-1122-K/DLPWXE

FRONT TERMINALS

- HDMI 1 in (assignable)
- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in (5 assignable)/1 out
- Ethernet 1 in
- AV (Composite) 3 in
- Audio 1 in (assignable)
- Digital Coaxial 2 in (assignable)
- Digital Optical 2 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Analogue Audio out and Volume Control
- Zone 2 Composite Video out with OSD
- Preout 2 SW out
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK/ZONE 2, FH/FW/Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 220-240 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 580 W/0.3 W
- Dimensions (W x H x D): 435 x 168 x 362.5 mm
- Weight: 9.9 kg

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone iPad

DOLBY TRUEHD

dts-HD Master Audio

Compatible with Windows 7

dlna CERTIFIED

HDMI

MCACC advanced

AUTO SOUND RETRIEVER / AIR

SOUND RETRIEVER LINK

Auto Level Control

Direct Energy AMP

Surround Modes

Virtual Speakers

PQLS Bit-stream

3D Compatible

Internet Radio

HDMI 1080p Upscaling

AVNavigator

iControlAV2012

Air Jam

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vTuner is a registered trademark of Noting Else Matters Software, Ltd.

Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.

For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/ao/

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VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 160 W/ch (6 ohms 1kHz 10 % 1ch Driven Maximum Power Output)
- 135 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 75 W/ch (20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Advanced MCACC Room Calibration
  - 3D Time Axis Measurement
  - Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (OSD or AVNavigator)
  - Standing Wave Control
- Pioneer Sound Enhancements
  - Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - PQLS Bit-stream/Multi-Surround/2ch
  - Advanced Sound Retriever (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Sound Retriever AIR
  - Auto Level Control (Multi-ch)
  - Advanced Surround (15+1 Modes)
  - Wide Surround Movie & Music
  - Front Stage Surround Advance (Wide/Focus)
  - Virtual Speakers (Wide/Height/Surround Back)
  - Virtual Depth

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p/24fps Scaler
- 1080p Upscaling
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link
- Frame Rate Conversion

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner
- ZONE 2 Analogue Audio Out

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- iControlAV2012 Remote Control App Ready (under development, to be released in spring 2012)
  - AV receiver and Blu-ray Disc player control from smartphone
  - Sound Explorer
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Wireless LAN Converter Ready (optional AS-WL300 required)
- Firmware Update via Internet or USB
- AVNavigator for easy wiring and setup with PC or iPad
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

* Available for free download from App Store/Google Play

VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

CONNECTIONS

REAR PANEL

VSX-922-K/DLXE

FRONT TERMINALS

- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in (5 assignable)/1 out
- Ethernet 1 in
- AV (Composite) 3 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Analogue Audio out
- Preout 2 SW out
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK/ZONE 2, FH/FW/Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 220-240 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 580 W/0.3 W
- Dimensions (W x H x D): 435 x 168 x 362.5 mm
- Weight: 9.8 kg

INTEGRATED TECHNOLOGIES

AirPlay · Made for iPod iPhone iPad · DOLBY TRUEHD · dts-HD Master Audio · Compatible with Windows 7 · dlna CERTIFIED · HDMI

MCACC advanced · AUTO SOUND RETRIEVER / AIR · SOUND RETRIEVER LINK · Auto Level Control

Direct Energy AMP · Surround Modes · Virtual Speakers · PQLS Bit-stream · 3D Compatible · Internet Radio · HDMI 1080p Upscaling · AVNavigator · iControlAV2012 · Air Jam

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VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 135 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 75 W/ch (20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Advanced MCACC Room Calibration
  - 3D Time Axis Measurement
  - Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (OSD or AVNavigator)
  - Standing Wave Control
- Pioneer Sound Enhancements
  - Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - PQLS Bit-stream/Multi-Surround/2ch
  - Advanced Sound Retriever (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Sound Retriever AIR
  - Auto Level Control (Multi-ch)
  - Advanced Surround (15+1 Modes)
  - Wide Surround Movie & Music
  - Front Stage Surround Advance (Wide/Focus)
  - Virtual Speakers (Wide/Height/Surround Back)
  - Virtual Depth

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p/24fps Scaler
- 1080p Upscaling
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link
- Frame Rate Conversion

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner
- ZONE 2 Analogue Audio Out

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- iControlAV2012 Remote Control App Ready (under development, to be released in spring 2012)
  - AV receiver and Blu-ray Disc player control from smartphone
  - Sound Explorer
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Wireless LAN Converter Ready (optional AS-WL300 required)
- Firmware Update via Internet or USB
- AVNavigator for easy wiring and setup with PC or iPad
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

* Available for free download from App Store/Google Play

VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

CONNECTIONS

REAR PANEL

VSX-922-K/PWXE

FRONT TERMINALS

- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in (5 assignable)/1 out
- Ethernet 1 in
- AV (Composite) 3 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Analogue Audio out
- Preout 2 SW out
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK/ZONE 2, FH/FW/Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 220-230 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 580 W/0.3 W
- Dimensions (W x H x D): 435 x 168 x 362.5 mm
- Weight: 9.8 kg

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone iPad

DOLBY TRUEHD

dts-HD Master Audio™

Compatible with Windows 7

dlna CERTIFIED

HDMI™

MCACC advanced

AUTO SOUND RETRIEVER / AIR

SOUND RETRIEVER LINK

Auto Level Control

Direct Energy AMP | Surround Modes | Virtual Speakers | PQLS Bit-stream | 3D Compatible | Internet Radio | HDMI 1080p Upscaling | AVNavigator | iControlAV2012 | Air Jam

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For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/ao/

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VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 160 W/ch (6 ohms 1kHz 10 % 1ch Driven Maximum Power Output)
- 135 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 75 W/ch (20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Advanced MCACC Room Calibration
  - 3D Time Axis Measurement
  - Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (OSD or AVNavigator)
  - Standing Wave Control
- Pioneer Sound Enhancements
  - Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - PQLS Bit-stream/Multi-Surround/2ch
  - Advanced Sound Retriever (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Sound Retriever AIR
  - Auto Level Control (Multi-ch)
  - Advanced Surround (15+1 Modes)
  - Wide Surround Movie & Music
  - Front Stage Surround Advance (Wide/Focus)
  - Virtual Speakers (Wide/Height/Surround Back)
  - Virtual Depth

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p/24fps Scaler
- 1080p Upscaling
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link
- Frame Rate Conversion

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner
- ZONE 2 Analogue Audio Out

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- iControlAV2012 Remote Control App Ready (under development, to be released in spring 2012)
  - AV receiver and Blu-ray Disc player control from smartphone
  - Sound Explorer
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Wireless LAN Converter Ready (optional AS-WL300 required)
- Firmware Update via Internet or USB
- AVNavigator for easy wiring and setup with PC or iPad
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

* Available for free download from App Store/Google Play

VSX-922-K

7.2-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

CONNECTIONS

REAR PANEL

VSX-922-K/FXE

FRONT TERMINALS

- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in (5 assignable)/1 out
- Ethernet 1 in
- AV (Composite) 3 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Analogue Audio out
- Preout 2 SW out
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK/ZONE 2, FH/FW/Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 110 V 50 Hz
- Power Consumption/Standby with HDMI Control off: 580 W/0.3 W
- Dimensions (W x H x D): 435 x 168 x 362.5 mm
- Weight: 9.8 kg

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone iPad

DOLBY TRUEHD

dts-HD Master Audio

Compatible with Windows 7

dlna CERTIFIED

HDMI

MCACC advanced

AUTO SOUND RETRIEVER / AIR

SOUND RETRIEVER LINK

Auto Level Control

Direct Energy AMP

Surround Modes

Virtual Speakers

PQLS Bit-stream

3D Compatible

Internet Radio

HDMI 1080p Upscaling

AVNavigator

iControlAV2012

Air Jam

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VSX-827-K

7.1-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 130 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 100 W/ch (20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Auto MCACC Room Calibration
- Pioneer Sound Enhancements
  - Phase Control
  - Advanced Sound Retriever (2ch)
  - Sound Retriever AIR
  - Auto Level Control (2ch)
  - Advanced Surround (9+1 Modes)
  - Front Stage Surround Advance

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p Upscaling (Analogue to HDMI only)
- Video Conversion to HDMI

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- ControlApp* Ready (iOS/Android)
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Firmware Update via USB (Network Module only)
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- AM/FM Tuner 30 Presets
- Sleep Timer
- Preset Remote Control (Luminous)

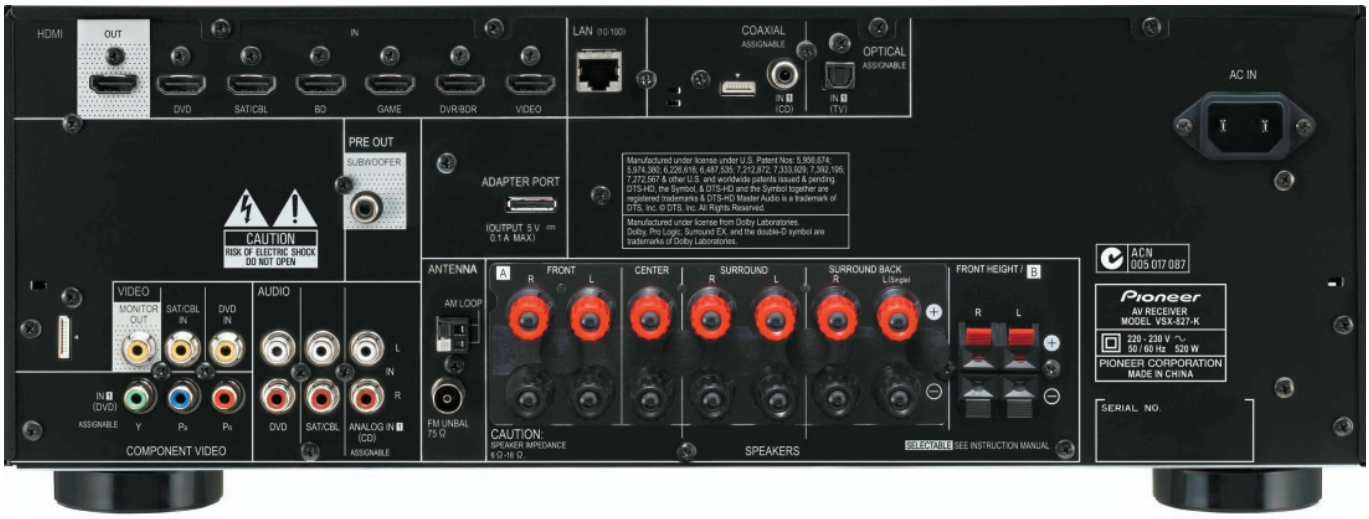
* Available for free download from App Store/Google Play

VSX-827-K

7.1-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, HDMI™ with 3D and ARC, and 1080p Video Processing

CONNECTIONS

REAR PANEL



VSX-827-K/PWXE

FRONT TERMINALS

- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in/1 out
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- Preout 1 SW out
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, FH/ Speaker B)
- *Bluetooth* Adapter Port for AS-BT200

SPECIFICATIONS

- Power Requirements: AC 220-230 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 520 W/0.45 W
- Dimensions (W x H x D): 435 x 168 x 342.5 mm
- Weight: 9.3 kg

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone iPad

DOLBY TRUEHD

dts-HD Master Audio

Compatible with Windows 7

dlna CERTIFIED

HDMI

MCACC Multi-channel Acoustic Calibration System

SOUND RETRIEVER AIR

ADVANCED SOUND RETRIEVER

Auto Level Control

Direct Energy AMP

Surround Modes

3D Compatible

Internet Radio

HDMI 1080p Upscaling

ControlApp

Air Jam

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Apple, AirPlay, iPhone, iPad, iPod and iPod touch are registered trademarks of Apple Inc., registered in the U.S. and other countries. AirPlay works with iPhone 4S, iPhone 4, iPhone 3GS, iPod touch (4th, 3rd and 2nd generations), iPad 2, iPad with iOS 4.2 or later, and iTunes 10.1 (Mac and PC) or later.

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vTuner is a registered trademark of Noting Else Matters Software, Ltd.

Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.

For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/ao/

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VSX-822-K

5.1-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, and HDMI™ with 3D and ARC

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 150 W/ch (6 ohms 1kHz 10 % 1ch Driven Maximum Power Output)
- 125 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 65 W/ch (20 Hz – 20 kHz, THD 0.2 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Auto MCACC Room Calibration
- Pioneer Sound Enhancements
  - Phase Control
  - Advanced Sound Retriever (2ch)
  - Sound Retriever AIR
  - Auto Level Control (2ch)
  - Advanced Surround (9+1 Modes)
  - Front Stage Surround Advance

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p Transferring

HOME NETWORK FEATURES

- AirPlay Wireless Audio
- DLNA Certified® (1.5)
- Compatible with Windows 7
- Music File Playback via LAN/USB (WAV, MP3, WMA, AAC, FLAC)
  - 192 kHz/24-Bit Audio playback (WAV, FLAC)
- Internet Radio with vTuner

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone/iPad, USB & Video Cable Supplied
- ControlApp* Ready (iOS/Android)
- Air Jam App* Ready (iOS/Android) (optional AS-BT200 adapter required)
  - Share music and create playlists via *Bluetooth* connection
- Firmware Update via USB (Network Module only)
- Graphic User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- AM/FM Tuner 30 Presets
- Sleep Timer
- Preset Remote Control (Luminous)

* Available for free download from App Store/Google Play

VSX-822-K

5.1-Channel AV Receiver Featuring Compatibility with AirPlay, Compatibility with iPod, iPhone, iPad, and HDMI™ with 3D and ARC

CONNECTIONS

REAR PANEL

VSX-822-K/FLXE

FRONT TERMINALS

- USB/iPod Video in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 6 in/1 out
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 1 SB/FH out, 1 SW out
- Speaker 5 ch out
- *Bluetooth* Adapter Port for AS-BT200

SPECIFICATIONS

- Power Requirements: AC 110-127/220-240 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 450 W/0.45 W
- Dimensions (W x H x D): 435 x 168 x 342.5 mm
- Weight: 8.9 kg

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone iPad

DOLBY TRUEHD

dts-HD Master Audio

Compatible with Windows 7

dlna CERTIFIED

HDMI

MCACC Multi-channel Acoustic Calibration System

SOUND RETRIEVER AIR

ADVANCED SOUND RETRIEVER

Auto Level Control

Direct Energy AMP

Surround Modes

3D Compatible

Internet Radio

Control App

Air Jam

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VSX-522-K

5.1-Channel AV Receiver Featuring Compatibility with iPod and iPhone, HDMI™ with 3D and ARC, and Dolby® TrueHD/DTS-HD Master Audio

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 125 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 65 W/ch (20 Hz – 20 kHz, THD 0.2 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Auto MCACC Room Calibration
- Pioneer Sound Enhancements
  - Phase Control
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
  - Advanced Surround (9+1 Modes)
  - Front Stage Surround Advance

VIDEO FEATURES

- HDMI 4 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p Transferring

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone
- Graphic User Interface (GUI) (OSD Analogue only)
- Auto Power Down
- AM/FM Tuner 30 Presets
- Sleep Timer
- Remote Control

VSX-522-K

5.1-Channel AV Receiver Featuring Compatibility with iPod and iPhone, HDMI™ with 3D and ARC, and Dolby® TrueHD/DTS-HD Master Audio

CONNECTIONS

REAR PANEL

VSX-522-K/PWXE

FRONT TERMINALS

- USB in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 4 in/1 out
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 1 SB/FH out, 1 SW out
- Speaker 5ch out

SPECIFICATIONS

- Power Requirements: AC 220-230 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 415 W/0.45 W
- Dimensions (W x H x D): 435 x 168 x 342.5 mm
- Weight: 8.7 kg

INTEGRATED TECHNOLOGIES

Made for iPod iPhone

DOLBY TRUEHD

dts-HD Master Audio™

HDMI™

MCACC Multi-channel Acoustic Calibration System

ADVANCED SOUND RETRIEVER

Auto Level Control

Direct Energy AMP

Surround Modes

3D Compatible

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VSX-522-K

5.1-Channel AV Receiver Featuring Compatibility with iPod and iPhone, HDMI™ with 3D and ARC, and Dolby® TrueHD/DTS-HD Master Audio

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 150 W/ch (6 ohms 1kHz 10 % 1ch Driven Maximum Power Output)
- 125 W/ch (6 ohms 1 kHz 1 % 1ch Driven)
- 65 W/ch (20 Hz – 20 kHz, THD 0.2 % @ 8 ohms FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Auto MCACC Room Calibration
- Pioneer Sound Enhancements
  - Phase Control
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
  - Advanced Surround (9+1 Modes)
  - Front Stage Surround Advance

VIDEO FEATURES

- HDMI 4 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p Transferring

CONVENIENCE FEATURES

- Digital Audio from iPod/iPhone/iPad via Front USB Terminal
- Charges iPod/iPhone
- Graphic User Interface (GUI) (OSD Analogue only)
- Auto Power Down
- AM/FM Tuner 30 Presets
- Sleep Timer
- Remote Control

VSX-522-K

5.1-Channel AV Receiver Featuring Compatibility with iPod and iPhone, HDMI™ with 3D and ARC, and Dolby® TrueHD/DTS-HD Master Audio

CONNECTIONS

REAR PANEL

VSX-522-K/FLXE

FRONT TERMINALS

- USB in
- MCACC Setup MIC in
- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 4 in/1 out
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 1 SB/FH out, 1 SW out
- Speaker 5ch out

SPECIFICATIONS

- Power Requirements: AC 110-127/220-240 V 50/60 Hz
- Power Consumption/Standby with HDMI Control off: 415 W/0.45 W
- Dimensions (W x H x D): 435 x 168 x 342.5 mm
- Weight: 8.7 kg

INTEGRATED TECHNOLOGIES

Made for iPod iPhone

DOLBY TRUEHD

dts-HD Master Audio™

HDMI™

MCACC Multi-channel Acoustic Calibration System

ADVANCED SOUND RETRIEVER

Auto Level Control

Direct Energy AMP

Surround Modes

3D Compatible

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VSX-322-K

5.1-channel AV Receiver featuring HDMI™ with 3D and ARC and Dolby® TrueHD/ DTS-HD Master Audio

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 100 W/ch (6 ohms 1 kHz 0.07 % 1ch Driven)
- 20 Hz – 20 kHz, THD 0.09 % @ 8 ohms FTC: TBD

AUDIO FEATURES

- Dolby® TrueHD/Dolby Digital Plus
- DTS-HD® Master Audio/DTS-ES/DTS Neo:6
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel
- Pioneer Sound Enhancements
  - Phase Control
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
  - Advanced Surround (9+1 Modes)
  - Front Stage Surround Advance

VIDEO FEATURES

- HDMI 4 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Colour (36-bit), x.v. Colour
- 1080p Transferring

CONVENIENCE FEATURES

- Auto Power Down
- AM/FM Tuner 30 Presets
- Sleep Timer
- Remote Control

VSX-322-K

5.1-channel AV Receiver featuring HDMI™ with 3D and ARC and Dolby® TrueHD/ DTS-HD Master Audio

CONNECTIONS

REAR PANEL

VSX-322-K/DLPWXE

FRONT TERMINALS

- Phones 1 out (shown on front page)

REAR TERMINALS

- HDMI 4 in/1 out
- AV (Composite) 2 in
- Audio 2 in/Rec 1 out
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 1 SB out, 1 SW out
- Speaker 5ch out

SPECIFICATIONS

- Power Requirements: AC 220-240 V 50/60 Hz
- Power Consumption: 190 W
- Dimensions (W x H x D): 435 x 168 x 362.5 mm
- Weight: 7.6 kg

INTEGRATED TECHNOLOGIES

DOLBY TRUEHD
dts-HD Master Audio™
HDMI™
ADVANCED SOUND RETRIEVER
Auto Level Control
Direct Energy AMP
Surround Modes
3D Compatible

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